Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the

application. Applicants have submitted a new complete claim set showing any marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double

bracketing.

Listing of Claims:

1. (Currently amended) A method for processing media data, the method comprising:

receiving a plurality of media data streams at once in different formats via a control layer;

modifying the media data streams in one or more stream sinks;

implementing in a media sink one or more state machines to control a state of transfer of

the media data streams on a per stream basis, the one or more state machines being implemented

according to one or more control signals from the control layer, the media sink providing a

common interface for processing the media data streams in different formats; and

using the state of the media data streams to modify the functionality of the stream sinks.

wherein the control layer signals the one or more stream sinks that one or more discontinuities exist in one or more media data streams by placing an associated marker in the

one or more media data streams.

2. (Previously presented) The method of claim 1 wherein the modification of the media data

streams is dynamic.

3. (Previously presented) The method of claim 1 further comprising:

throttling processing of the media data streams via the stream sinks based on one or more

media sink components.

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4. (Original) The method of claim 1 wherein one or more of the media sink and the stream sinks

provide notifications for events to the control layer.

5. (Original) The method of claim 1 wherein the media data stream switches to a second media

sink upon a detection of invalid media sink.

6. (Original) The method of claim 1 wherein the media sink directs multiplexing of two or more

of the media data streams into a same media sink.

7. (Original) The method of claim 1 wherein the control layer directs control and timing for the

media sink and the stream sinks.

8. (Original) The method of claim 1 wherein the control layer directs format negotiation to be

performed in the stream sinks, the format appropriate for an output device.

9. (Original) The method of claim 1 wherein the control layer includes a media engine and a

media processor, the media engine communicating with a core layer to direct a pipeline through

one or more multimedia transforms and to the media sink

10. (Previously presented) The method of claim 9 wherein the core layer includes the media sink,

the one or more stream sinks, a media source, the multimedia transforms and stream sources.

11. (Original) The method of claim 1 wherein the stream sink accesses an application

programming interfaces (API) that enables the stream sink to access a pointer to the media sink.

12. (Original) The method of claim 1 wherein the stream sink accesses an application

programming interfaces (API) that provides an identifier for the media sink.

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13. (Original) The method of claim 1 wherein the stream sink accesses an application

programming interfaces (API) that provides a type of media in use.

14. (Original) The method of claim 1 wherein the stream sink accesses an application

programming interfaces (API) configured to cause processing of a sample of the media data,

15. (Original) The method of claim 1 wherein the stream sink accesses an application

programming interfaces (API) configured to remove any data that has not been processed.

16. (Original) The method of claim 1 wherein the stream sink accesses an application

programming interfaces (API) configured to place a marker in the data stream to determine when

the stream sink has finished processing received data associated with the marker.

17. (Original) The method of claim 1 wherein the stream sink accesses an application

programming interfaces (API) configured to identify an end of a segment of the media data.

18. (Previously presented) The method of claim 9 wherein the core layer is configured to

communicate to retrieve characteristics of a sample allocator.

19. (Previously presented) The method of claim 9 wherein the core layer is configured to request

that a sample allocator acquire any needed resources.

20. (Previously presented) The method of claim 9 wherein the core layer is configured to request

that a sample allocator end an asynchronous resource allocation process.

21. (Previously presented) The method of claim 9 wherein the core layer is configured to request

that a sample allocator retrieve one or more of a maximum number of samples in a sample

allocation and any requested samples.

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22. (Previously presented) The method of claim 9 wherein the core layer is configured to request

that a sample allocator cancel one or more allocations.

23. (Currently amended) A computer readable medium having computer-executable instructions

for processing data through a collection of one or more media objects, the computer-executable

instructions performing acts comprising:

receiving a plurality of media data streams at once in different formats via a control layer;

modifying the media data streams in one or more stream sinks;

implementing in a media sink one or more state machines to control a state of transfer of

the media data streams on a per stream basis, the one or more state machines being implemented according to one or more control signals from the control, the media sink providing a common

interface for processing the media data streams in different formats; and

using the state of the media data streams to modify the functionality of the stream sinks,

wherein the control layer signals the one or more stream sinks that one or more

discontinuities exist in one or more media data streams by placing an associated marker in the

one or more media data streams.

24. (Original) The computer readable medium of claim 23 wherein the modification of the data

streams is dynamic.

25. (Original) The computer readable medium of claim 23 wherein the acts are further

comprising: throttling the processing via the stream sinks based on one or more media sink

components.

26. (Original) The computer readable medium of claim 23 wherein one or more of the media

sink and the stream sinks provide notifications for events to the control layer.

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27. (Original) The computer readable medium of claim 23 wherein the media data stream

switches to a second media sink upon a detection of invalid media sink.

28. (Original) The computer readable medium of claim 23 wherein the media sink directs

multiplexing of two or more of the media data streams into a same media sink.

29. (Original) The computer readable medium of claim 23 wherein the control layer directs

control and timing for the media sink and the stream sinks.

30. (Original) The computer readable medium of claim 23 wherein the control layer directs

format negotiation to be performed in the stream sinks, the format appropriate for an output

device.

31. (Original) The computer readable medium of claim 23 wherein the control layer includes a

media engine and a media processor, the media engine communicating with a core layer to direct

a pipeline through one or more multimedia transforms and to the media sink.

32. (Currently amended) A multimedia system comprising:

a control layer configured to receive a plurality of media data streams at once in different

formats from an application;

a core layer coupled to the control layer, the core layer including:

one or more media sink components configured to implement one or more state

machines to control transfer of the media data streams on a per stream basis through the multimedia system, the one or more state machines being implemented according to one

multimedia system, the one or more state machines being implemented according to one or more control signals from the control layer, the media sink components providing a

common interface for processing the media data streams in different formats; and

one or more stream sinks configured to dynamically modify the media data

streams via the control layer and an identified state of the media data streams determined

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in the media sink components,

wherein the control layer signals the one or more stream sinks that one or more

discontinuities exist in one or more media data streams by placing an associated marker

in the one or more media data streams.

33. (Original) The multimedia system of claim 32 wherein the control layer is an application

programming interface (API).

34. (Original) The multimedia system of claim 32 wherein the control layer includes a media

engine and a media processor, the media engine communicating with a core layer to direct a

pipeline through one or more multimedia transforms and to the media sink.

35. (Original) The multimedia system of claim 32 wherein the core layer includes the media

sink, the stream sinks, a media source, one or more multimedia transforms and one or more

stream sources.

36. (Original) The multimedia system of claim 32 wherein the core layer is configured to

communicate with the media sink to retrieve the characteristics of the media sink

37. (Original) The multimedia system of claim 32 wherein the core layer is configured to

communicate with the media sink to add an additional stream sink and remove one of the stream

sinks

38. (Original) The multimedia system of claim 32 wherein the core layer is configured to

communicate with the media sink, the media sink enabled to report the number of stream sinks

associated with a given media sink.

39. (Original) The multimedia system of claim 32 wherein the core layer is configured to

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communicate with the stream sinks to send a pointer to a stream sink associated with the media

sink by an index in the media sink.

40. (Original) The multimedia system of claim 32 wherein the core layer is configured to

communicate to send a pointer, to a stream sink associated with the media sink using a stream

sink identifier.

41. (Original) The multimedia system of claim 32 wherein the core layer is configured to

communicate to set a rate of a presentation clock and retrieve a presentation clock setting.

42. (Original) The multimedia system of claim 32 wherein the core layer is configured to

communicate to retrieve characteristics of a sample allocator.

43. (Original) The multimedia system of claim 32 wherein the core layer is configured to request

that a sample allocator acquire any needed resources.

44. (Original) The multimedia system of claim 32 wherein the core layer is configured to request

that a sample allocator end an asynchronous resource allocation process.

45. (Original) The multimedia system of claim 32 wherein the core layer is configured to request

that a sample allocator retrieve one or more of a maximum number of samples in a sample

allocation and any requested samples.

46. (Original) The multimedia system of claim 32 wherein the core layer is configured to request

that a sample allocator cancel one or more allocations.

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